

Notice of Allowability

Application No.

09/930,598

Applicant(s)

OSBORNE, ANDREW JAMES

Examiner

Chih-Ching Chow

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/11/05.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

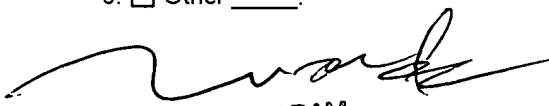
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 9/10/01, 12/10/01
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 02/03/06
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TUAN DAM
SUPERVISORY PATENT EXAMINER

Examiner's Amendment and Statement of Reasons for Allowance

1. This action is responsive to Applicant's amendment after non-final filed on November 11, 2005.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with Mr. George E. Grosser, Registration Number 25,629, on February 03, 2006 for obviating 101 rejection and put the claims in condition for allowance.

4. Claims 12-19, 24-27 are amended as the attached Supplemental Amendment, facsimile transmitted dated 02/03/2006; wherein for claims 12-19, 24 and 27 see the facsimile copy, and claims 25 and 26 should be amended as the following:

IN THE CLAIMS

a. Claim 25 (Currently amended),

At line 1, before "syntax checker" insert computer-implemented.

b. Claim 26 (Currently amended),

At line 1, before "syntax checker" insert computer-implemented.

- - End - -

Examiner's Statement of Reason(s) for Allowance

5. Claims 1-37 are allowed.

6. The following is an examiner's statement of reasons for allowance:

The prior arts of record: Aho, teaches parsing syntax trees (a fan shape tree) and a multi branch process. Tang teaches a method, system and a program for compiling a program which with embedded language, the statement is lexically scanned and parsed into a parse tree if the statement is in the first language. If the statement is in the second language, then the statement is lexically scanned. Then a plurality of function calls capable of executing the statement are accessed and translated to at least one parse tree. The parsed statements are converted into target code. New art made of record: Breternitz, teaches a method and apparatus for sequencing computer instructions in memory to provide for more instruction efficient execution. However, none of them, taken alone or in combination (as indicated in Analysis in REMARKS dated 11/11/2005, pages 12-14), teaches the limitations of a method for validating a syntactical statement, employing a stored syntax tree representing all possible syntax options by means of a network of junction nodes and data nodes between a root node and an end node, such that all paths through the tree lead to the end node, said method comprising the steps of: passing said syntactical statement to the root node and parsing said syntactical statement into elementary tokens in the root node; maintaining the location of a current node in the syntax tree, whereby said current node is initially the root node; returning potential nodes that can be selected from the current node and their distances from the current node; in response to said returning step, comparing the potential nodes to the stored tokens and selecting a potential node corresponding to one of said stored tokens if such a corresponding node exists; updating the location of the current node to that of a selected node, repeating said returning, comparing and selecting steps wherein the syntactical

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statement is validated if the end node is reached. in such a manner as recited in each of the independent claims 1, 12, and 27; and a syntax checker with a stored syntax tree representing a body of valid syntax; and a table for holding elementary tokens of syntax making up a syntactical statement to be checked; said syntax tree comprising root and end node objects joined by a network of junction node objects and data node objects, said data node objects representing options in the syntax including tokens, such that each junction node object may link to an unlimited number of other junction node objects and data node objects, and each data node object only links to a singular junction node object, whereby all pathways through the network eventually terminate in said end node object; each of said junction node objects, being effective to evaluate linked data node options following said junction node object so that any tokens in said table corresponding to a linked data node object are marked as "found", whereby said syntactical statement is progressively compared with said syntax tree either until said end node is reached, indicating the syntax of the statement is valid, or until a corresponding data object is not found, indicating said syntax is not valid, as recited in independent claim 24.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Ching Chow whose telephone number is 571-272-3693. The examiner can normally be reached on 7:00am - 3:30pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on 571-272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chih-Ching Chow
Examiner
Art Unit 2192
February 03, 2006

CC



TUAN DAM
SUPERVISORY PATENT EXAMINER